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(54) Title: OPTICAL COHERENCE TOMOGRAPHY SYSTEM AND METHOD FOR IMAGING OF A SAMPLE

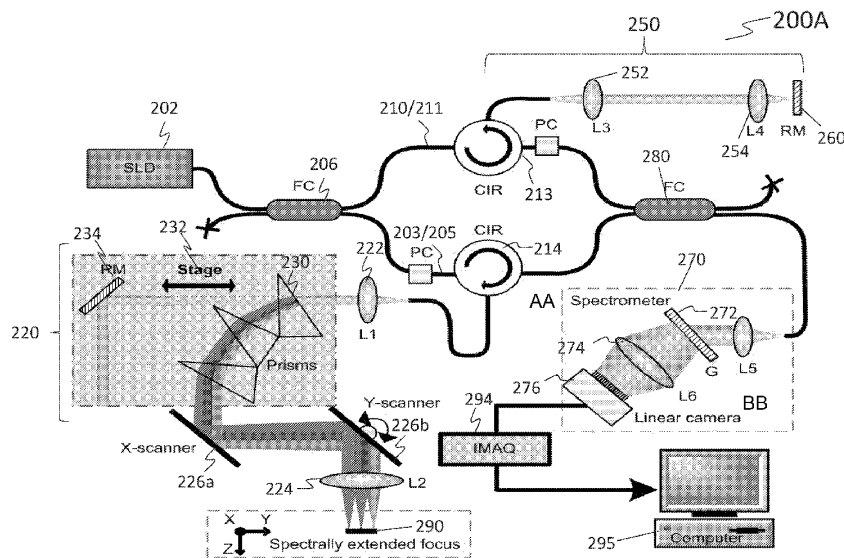


FIG. 2A

(57) Abstract: Aspects concern an optical coherence tomography (OCT) system for imaging of a sample, comprising: a sample arm for directing light onto the sample, the sample arm comprises sample arm optics comprising a dispersive element to generate an extended source for illuminating the sample; a reference arm; a detector for detecting an interference signal from light that is reflected from the reference arm and light that is back-reflected or back-scattered from the sample; and a scanner for scanning the extended source across the sample along a fast axis and a slow axis such that a plurality of partial-spectrum frames is obtained at the detector; wherein the dispersive element is orientable such that the extended source is disposed at a non-zero angle to the fast axis.

[Continued on next page]

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